



# Environmental Justice GIS-Based Analysis

---

Wayne Tsuda, Director  
City of Los Angeles LEA

# Environmental Justice is a New Field

---

- # Environmental Justice must be addressed by LEA programs in permitting facilities
- # The LEA must conduct a public informational meeting per PRC 44004
- # Federal and state guidelines for content of meetings and outreach are nonexistent



# City of Los Angeles LEA Approach

---

- # In 1998, the City of LA adopted a resolution adopting principles in addressing environmental justice. These included:
- # “Assure fair treatment of people ... with respect to development”
- # “Provide a clear, consistent, predictable, and timely process for evaluating and addressing potential community impacts...”
- # “Include enhanced public outreach and on-going review of proposed guidance, policies, programs, and evaluation criteria/methodologies.”

# Success Is Based on Communication

---

- # Communication must be clear, open and disclose all pertinent information to all stakeholders, specifically the:
  - # Community, including adjoining businesses and residents,
  - # Project proponent or operator and
  - # Agencies with permitting authority



# Need for Technological Assistance

---

- # To identify residents and businesses near proposed facilities and announce public meetings
- # Produce mailing lists
- # Determine language and literacy levels needed to notify residents most effectively

# Environmental Database Description

---

- # Utilizes a combination of data from the CIWMB SWIS Database and the Federal Census
  - Selected socio-demographic data was combined with numeric data and integrated with GIS software

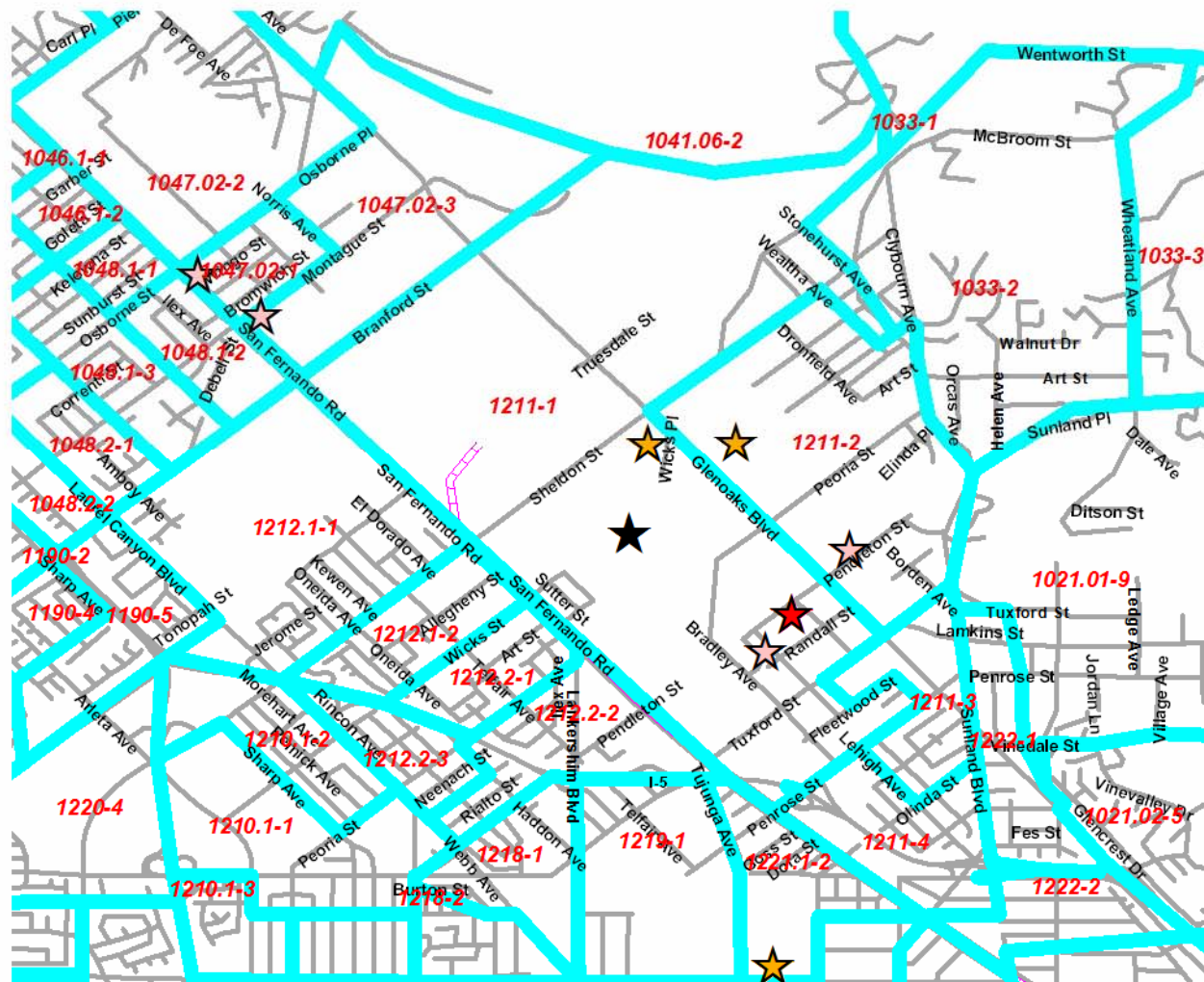


# System Description Con't.

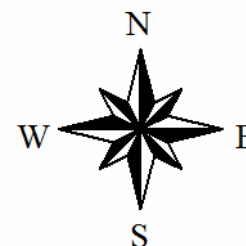
---

- # Information is pictorially presented to provide a more useful display of data
- # MS Access/Excel software is used to provide a comparative format
- # Data comparisons can be done from census block to city-to-city level
- # Data mining approach used

# Sun Valley Block Group Identification Based on 2000 Decennial Census Summary Files



- ★ Solid Waste Landfill
- ★ Inert Disposal Site
- ★ Large Transfer Site
- ★ Med/Sml Transfer Site
- Block Group
- Railroad Streets

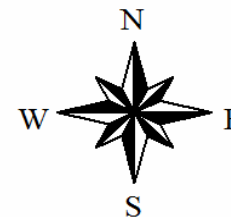
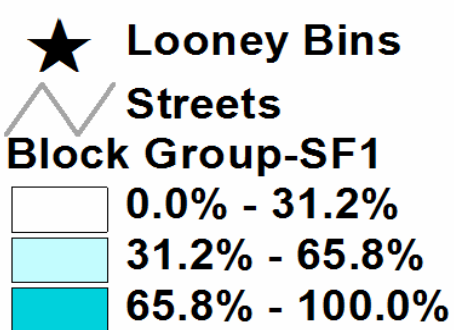




## Looney Bins

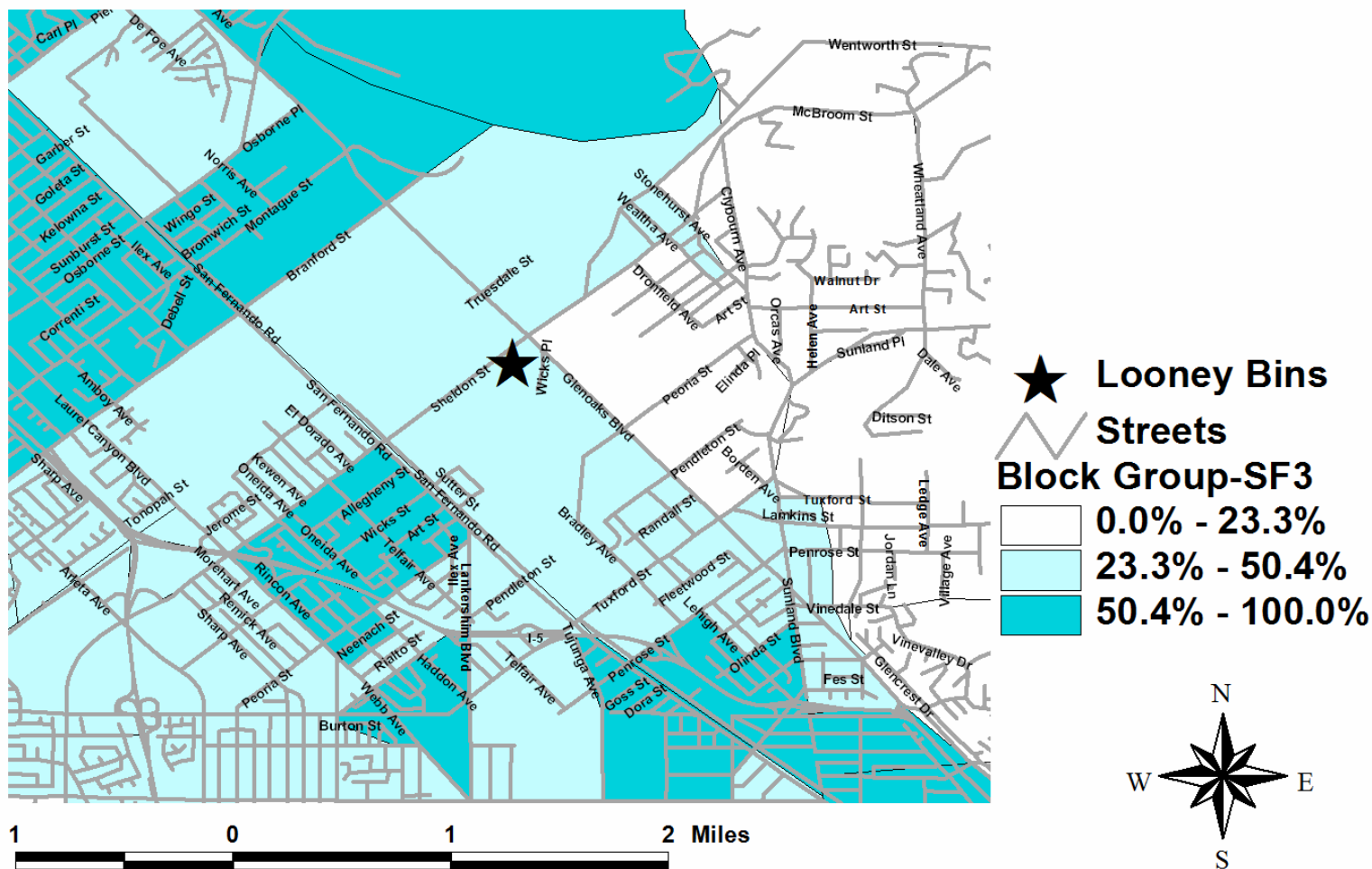
### Percent of Population With Hispanic Ethnicity by Census Block Group

**Based on 2000 Decennial Census Summary File 1**



# Looney Bins

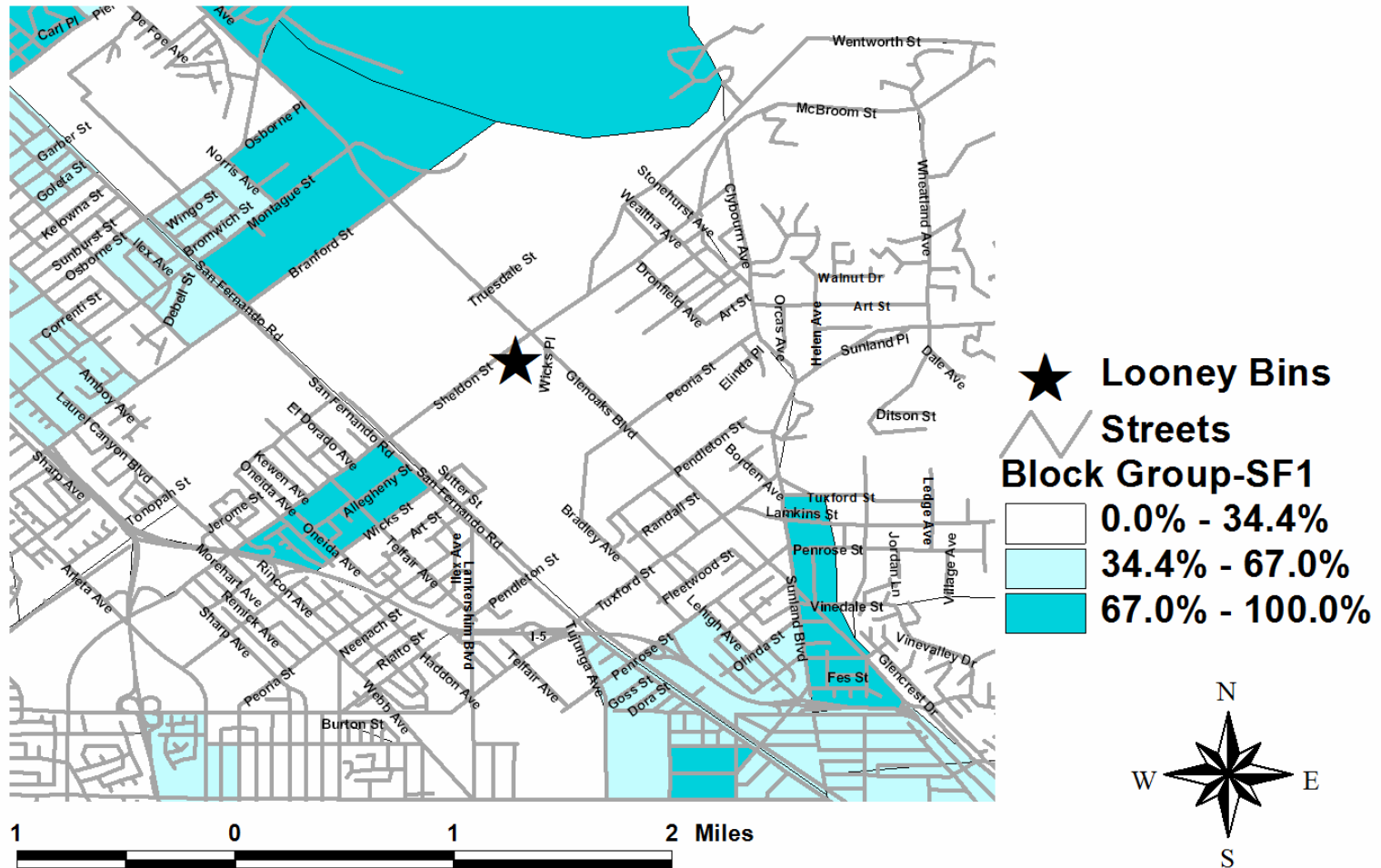
## Percent of Population 25 and Over With No High School Diploma by Census Block Group Based on 2000 Decennial Census Summary File 3





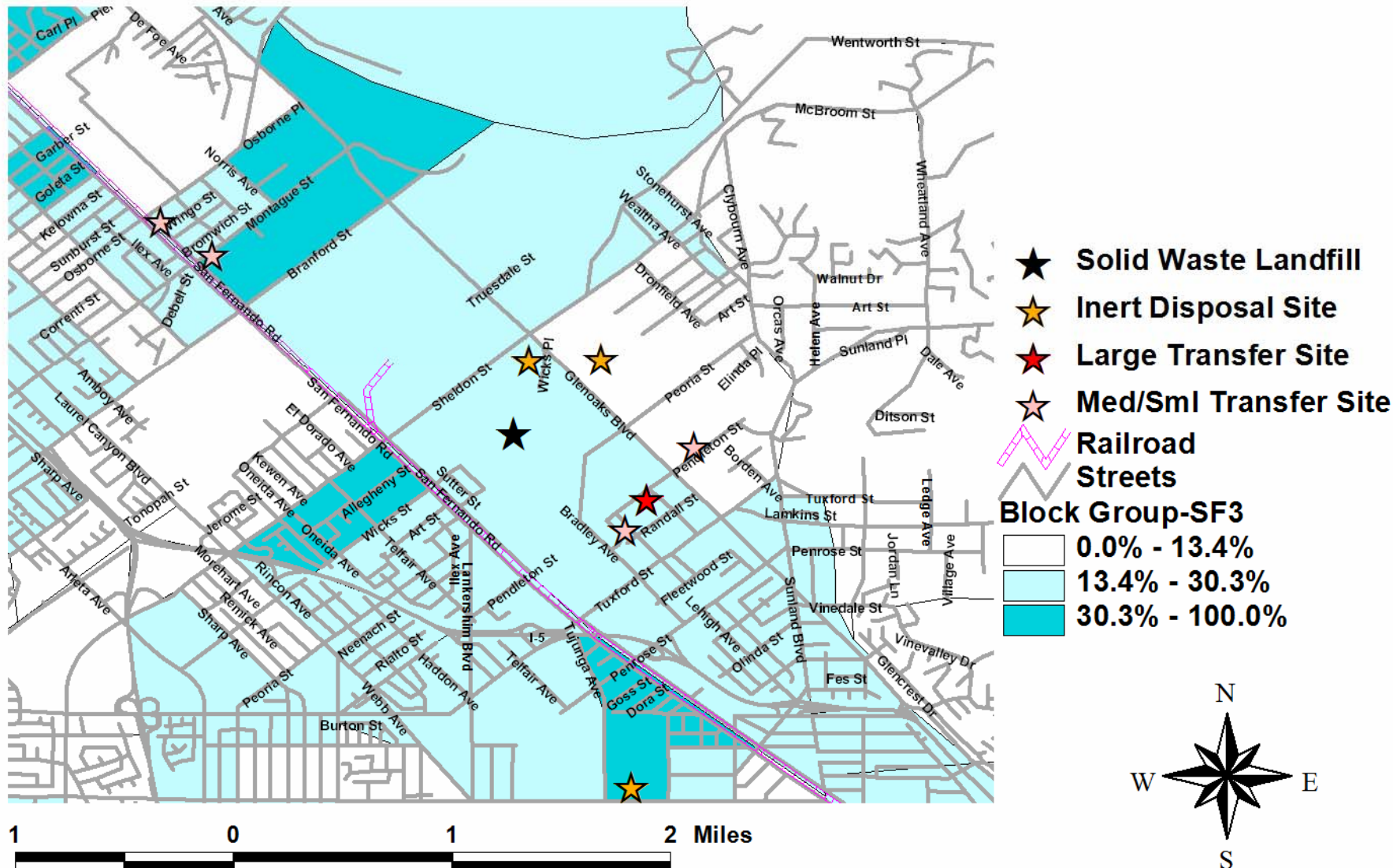
# Looney Bins

## Percent of Housing Units That Are Renter Occupied by Census Block Group Based on 2000 Decennial Census Summary File 1



# Sun Valley

## Percent of Households with 1999 Income Below Poverty Level by Census Block Group Based on 2000 Decennial Census Summary File 3





	Select a Census Tract-Block Group	1212.1-2 ▼
	2000 DECENNIAL CENSUS DATA FROM SUMMARY FILES 1 AND 3	
Abbreviation	DEMOGRAPHIC INDICATOR	VALUE
SUMMARY FILE 1		
PopTot	Population; Total	2945
Pop1	Population of one race	2751
Pop1Wht	Population of one race; White alone	1290
Pop1Blk	Population of one race; Black or African American alone	87
Pop1Ind	Population of one race; American Indian and Alaska Native alone	44
Pop1Asn	Population of one race; Asian alone	110
Pop1Pac	Population of one race; Native Hawaiian and Other Pacific Islander alone	0
Pop1Oth	Population of one race; Some other race alone	1220
Pop2Pls	Population of two or more races	194
Pop2	Population of two races	192
Pop2WhtBlk	Population of two races; White; Black or African American	4
Pop2WhtInd	Population of two races; White; American Indian and Alaska Native	10
Pop2WhtAsn	Population of two races; White; Asian	11
Pop2WhtPac	Population of two races; White; Native Hawaiian and Other Pacific Islander	0
Pop2WhtOth	Population of two races; White; Some other race	146
Pop2BlkInd	Population of two races; Black or African American; American Indian and Alaska Native	0
Pop2BlkAsn	Population of two races; Black or African American; Asian	0
Pop2BlkPac	Population of two races; Black or African American; Native Hawaiian and Other Pacific Islander	0
Pop2BlkOth	Population of two races; Black or African American; Some other race	3
Pop2IndAsn	Population of two races; American Indian And Alaska Native; Asian	0
Pop2IndPac	Population of two races; American Indian And Alaska Native; Native Hawaiian and Other Pacific Islander	0
Pop2IndOth	Population of two races; American Indian And Alaska Native; Some other race	13
Pop2AsnPac	Population of two races; Asian; Native Hawaiian and Other Pacific Islander	1
Pop2AsnOth	Population of two races; Asian; Some other race	4
Pop2PacOth	Population of two races; Native Hawaiian and Other Pacific Islander; Some other race	0
Pop3	Population of three races	2
Pop4	Population of four races	0
Pop5	Population of five races	0
Pop6	Population of six races	0
PopHis	Population; Hispanic	2558
PopHis1Wht	Population; Hispanic; White alone	1112
PopHis1Blk	Population; Hispanic; Black alone	12
PopHis1Ind	Population; Hispanic; American Indian and Alaska Native alone	38
PopHis1Asn	Population; Hispanic; Asian alone	9
PopHis1Pac	Population; Hispanic; Native Hawaiian and Other Pacific Islander alone	0
PopHis1Oth	Population; Hispanic; Some other race alone	1218
PopHis2Pls	Population; Hispanic; Two or more races	169
PopMl	Population; Total Male	1505
PopF1	Population; Total Female	1440

# First Trials



- # Demographic analysis revealed detail not previously considered
- # Analysis generates data on linguistic isolation, educational level and other outreach-related issues
- # Creates a rationale for actions undertaken or expenses incurred



# Conclusion

---

- # Ease of use
- # Comprehensive analysis possible
- # Used successfully for 4 permits
- # Documented extent of outreach
- # Results are easily comprehended
- # Cost effective